

#### BRIEF DESCRIPTION OF THE DRAWINGS

For a fuller understanding of the systems, processes, and products of the present invention, reference is made to the following detailed description, which is to be taken with the accompanying drawings, wherein:

Fig. 1 illustrates the design, partially diagrammatically, of dental instrumentation embodying the laser system of the present invention;

~~Fig. 2a illustrates a dental station incorporating the instrumentation of Fig. 1;~~

~~Fig. 2b~~ 2 illustrates details of the control system of the dental station of Fig. 2a 1;

Fig. 3a shows details of a laser energy delivery head for the instrumentation of Fig. 1;

Fig. 3b shows details of an alternative laser energy delivery head for the instrumentation of Fig. 1;

Fig. 4a shows wavelength division multiplexing details of the laser system of Fig. 1;

Fig. 4b shows further wavelength division multiplexing details of the laser system of Fig. 1;

Fig. 5 illustrates how selected chromophore absorption leads to bacterial cell death pursuant to the present invention;

Fig. 6 illustrates the application of the present invention to periodontal pockets;

Fig. 7 illustrates the application of the present